

Track 1-Systems Analysis & LowTemp - Room Standley I		Track 2 Hydrothermal - Room Westminster II		Track 3 EGS1 - Room Westminster I		Track 4 EGS2 - Room Standley II	
Time	Panel	Time	Panel	Time	Panel	Time	Panel
Presenter(s), Awardee (or Organization), Project Title		Presenter(s), Awardee (or Organization), Project Title		Presenter(s), Awardee (or Organization), Project Title		Presenter(s), Awardee (or Organization), Project Title	
8:00a-9:00a 60 min	Wendy Harrison, Colorado School of Mines Plenary - GEOTHERMAL ENERGY: Global Reach, Local Impact room: Westminster III & IV	8:00a-9:00a 60 min	Wendy Harrison, Colorado School of Mines Plenary - GEOTHERMAL ENERGY: Global Reach, Local Impact room: Westminster III & IV	8:00a-9:00a 60 min	Wendy Harrison, Colorado School of Mines Plenary - GEOTHERMAL ENERGY: Global Reach, Local Impact room: Westminster III & IV	8:00a-9:00a 60 min	Wendy Harrison, Colorado School of Mines Plenary - GEOTHERMAL ENERGY: Global Reach, Local Impact room: Westminster III & IV
9:00a-9:30a 30 min	Tom Lowry, SNL GT-Mod	9:00a-9:30a 30 min	Rob Mellors, LLNL Stochastic Joint Inversion for Integrated Data Interpretation in Geothermal Exploration	9:00a-9:30a 30 min	Lyle Burns, Clean Tech Innovations, LLC SPI Conformance Gel Applications in Geothermal Zonal Isolation	9:00a-9:30a 30 min	Carlos Fernandez, PNNL Reservoir Stimulation Optimization with Operational Monitoring for Creation of EGS
9:30a-10:00a 30 min	Greg Mines, INL GETEM	9:30a-10:00a 30 min	Dr. Andre Revil, Colorado School of Mines Time-lapse joint inversion of GEOphysical Data and its application to gEothermal prospecting - GEODE	9:30a-10:00a 30 min	Jefferson Tester, Cornell University A Reactive Tracer Method for Predicting EGS Reservoir Geometry and Thermal Lifetime: Development and Field Validation	9:30a-10:00a 30 min	Mark Grubelich, SNL Gas Generator Development and Testing for Controlled Rapid Pressurization Using Liquid Propellants for EGS Well Stimulation
10:00a-10:30a 30 min	Thomas Edmunds, LLNL The Value of Geothermal Power for Integration of Intermittent Generation	10:00a-10:30a 30 min	Rob Mellors, LLNL Identifying High Potential Well Targets with 3D Seismic, and Mineralogy	10:00a-10:30a 30 min	John Christensen, LBNL Radioisotope Tracers and Fracture Attributes for Enhanced Geothermal Systems	10:00a-10:30a 30 min	Charles Carrigan, LLNL Validation of EGS Feasibility and Explosive Fracturing Techniques
10:30a-10:40a 10 min	Audience Q&A	10:30a-10:40a 10 min	Audience Q&A	10:30a-10:40a 10 min	Audience Q&A	10:30a-10:40a 10 min	Audience Q&A
10:40a-11:00a 20 min	Break	10:40a-11:00a 20 min	Break	10:40a-11:00a 20 min	Break	10:40a-11:00a 20 min	Break
11:00a-11:30a 30 min	Jordan Macknick, NREL Projected Deployment of Geothermal Technologies Subject to Water Availability Constraints	11:00a-11:30a 30 min	Chad Augustine, NREL SURGE: Sedimentary Geothermal Feasibility Study	11:00a-11:30a 30 min	Richard A. Kemp, SNL Tagged Nanoparticles for Fluid Flow Monitoring	11:00a-11:30a 30 min	Wrap Up: Innovative Stimulation Techniques Session
11:30a-12:00p 30 min	Kate Young, NREL Regulatory Roadmap	11:30a-12:00p 30 min	Lianjie Huang, LANL Imaging Fault Zones Using a Novel Elastic Reverse-Time Migration Imaging Technique	11:30a-12:00p 30 min	Toshi Sugama, BNL Temporary Sealer Materials	11:30a-12:00p 30 min	Curt Oldenburg, LBNL Push-pull well testing using CO2 with active source geophysical monitoring
12:00p-12:30p 30 min	Dan Getman, NREL Geothermal Prospector	12:00p-12:30p 30 min	Chad Augustine, NREL SURGE: Completing Horizontal Geothermal Wells	12:00p-12:30p 30 min	Kevin Knauss, LBNL Fluid Chemistry and Fracture Growth: What's the Connection?	12:00p-12:30p 30 min	Tom Buscheck, LLNL Active Management of Integrated Geothermal CO2 Storage Reservoirs in Sedimentary Formations
12:30p-12:40p 10 min	Audience Q&A	12:30p-12:40p 10 min	Audience Q&A	12:30p-12:40p 10 min	Audience Q&A	12:30p-12:40p 10 min	Audience Q&A
12:40p-2:00p 80 min	Lunch - Tim Reinhardt, DOE Vision Study room: Westminster III & IV	12:40p-2:00p 80 min	Lunch - Tim Reinhardt, DOE Vision Study room: Westminster III & IV	12:40p-2:00p 80 min	Lunch - Tim Reinhardt, DOE Vision Study room: Westminster III & IV	12:40p-2:00p 80 min	Lunch - Tim Reinhardt, DOE Vision Study room: Westminster III & IV
2:00p-2:30p 30 min	Chad Augustine, NREL Geothermal Resource Potential and Supply Curve Improvement	2:00p-2:30p 30 min	Wrap up: Reservoir Fracture Characterization & Fluid Imaging	2:00p-2:30p 30 min	Wrap Up: Tracers / Zonal Isolation / Geochemistry Session	2:00p-2:30p 30 min	Barry Freifeld, LBNL Geothermal Energy Production Coupled with CCS: Heat Recovery Using an Innovative High Efficiency Supercritical CO2 Turboexpansion Cycle
2:30p-3:00p 30 min	Chad Augustine, NREL Strategic Analysis	2:30p-3:00p 30 min	James Faulds, Nevada Bureau of Mines and Geology, University of Nevada-Reno Discovering Blind Geothermal Systems in the Great Basin Region: An Integrated Geologic and Geophysical Approach for Establishing Geothermal Play Fairways	2:30p-3:00p 30 min	Kamalesh Chatterjee, Baker Hughes Oilfield Operations Incorporated Recovery Act: High Temperature 300C Directional Drilling System, including drill bit, steerable motor, and drilling fluid, for Enhanced Geothermal Systems	2:30p-2:40p 10 min	Audience Q&A
3:00p-3:30p 30 min	Colin Williams, U.S. Geological Survey National Geothermal Resource Assessment and Classification	3:00p-3:30p 30 min	Nicole Lautze, University of Hawaii Comprehensive analysis of Hawaii's geothermal potential through Play Fairway integration of geophysical, geochemical, and geological data	3:00p-3:30p 30 min	Kamalesh Chatterjee, Baker Hughes Oilfield Operations Incorporated Directional Measurement-While-Drilling System for Geothermal Applications	2:40p-3:10p 30 min	Wrap Up: Supercritical Carbon Dioxide / Working Fluids Session
3:30p-3:40p 10 min	Audience Q&A	3:30p-3:40p 10 min	Audience Q&A	3:30p-3:40p 10 min	Audience Q&A	3:10p-3:40p 30 min	
3:40p-4:00p 20 min	Break	3:40p-4:00p 20 min	Break	3:40p-4:00p 20 min	Break	3:40p-4:00p 20 min	Break
4:00p-4:30p 30 min	Wrap up: Systems Analysis Session	4:00p-4:30p 30 min	Richard Stephen Middleton, LANL Hydrogeologic windows: Regional Signature Detection for Blind and Traditional Geothermal Play Fairways	4:00p-4:30p 30 min	David Raymond, SNL High Temperature Downhole Motor	4:00p-4:30p 30 min	Joseph Moore, University of Utah Concept Testing and Development at the Raft River Geothermal Field, Idaho
4:30p-5:00p 30 min		4:30p-5:00p 30 min	Lisa Shevenell, Atlas Geosciences Inc. Geothermal Potential of the Cascade and Aleutian Arcs, with Ranking of Individual Volcanic Centers for their Potential to Host Electricity-Grade Reservoirs	4:30p-4:40p 10 min	Audience Q&A	4:30p-5:00p 30 min	Mitch Plummer, INL EGS Reservoir Stimulations and Long-Term Performance Modeling
5:00p-5:30p 30 min		5:00p-5:10p 10 min	Audience Q&A	4:40p-5:10p 30 min		5:00p-5:30p 30 min	Lianjie Huang, LANL Joint Active and Passive Seismic Imaging of EGS Reservoirs
5:30p-5:40p 10 min		5:10p-5:40p 30 min		5:10p-5:40p 30 min		5:30p-5:40p 10 min	Audience Q&A

Systems Analysis, Resources Assessment, Data System Development & Population, Education

Hydrothermal: Reservoir Fracture Characterization & Fluid Imaging

Hydrothermal: Exploration Validation / Play Fairway Analysis

Enhanced Geothermal Systems: Tracers / Zonal Isolation / Geochemistry

Enhanced Geothermal Systems: High Temp Tools, Drilling Systems

Enhanced Geothermal Systems: Innovative Stimulation Techniques

Enhanced Geothermal Systems: Supercritical Carbon Dioxide/Working Fluids

Enhanced Geothermal Systems: Enhanced Geothermal System Demonstrations

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8:00a-9:00a 60 min	Mike Pacheco, NREL Geothermal's Role in an "All of the Above" Energy Strategy room: Westminster III & IV	8:00a-9:00a 60 min	Mike Pacheco, NREL Geothermal's Role in an "All of the Above" Energy Strategy room: Westminster III & IV	8:00a-9:00a 60 min	Mike Pacheco, NREL Geothermal's Role in an "All of the Above" Energy Strategy room: Westminster III & IV	8:00a-9:00a 60 min	Mike Pacheco, NREL Geothermal's Role in an "All of the Above" Energy Strategy room: Westminster III & IV																																																
9:00a-9:30a 30 min	Craig Turchi, NREL Low-Enthalpy Geothermal Desalination	9:00a-9:30a 30 min	John Shervais, Utah State University Play Fairway Analysis of the Snake River Plain	9:00a-9:30a 30 min	Randy Norman, Perma Works Well Monitoring Systems for EGS	9:00a-9:30a 30 min	Susan Petty, AltaRock Energy, Inc. Recovery Act: Newberry Volcano EGS Demonstration																																																
								9:30a-10:00a 30 min	David. J. Heldebrant, PNNL Geothermal Power Generation and CO2 Capture Co-Production	9:30a-10:00a 30 min	James McClain, University of California-Davis Geothermal Play Fairway Analysis of Potential Geothermal Resources in NE California, NW Nevada, and Southern Oregon	9:30a-10:00a 30 min	Grzegorz Cieslewski, SNL High Temperature Chemical Sensing Tool for Distributed Mapping of Fracture Flow in EGS	9:30a-10:00a 30 min	Eric Sonnenthal, LBNL Evaluation of Stimulation at Newberry Volcano EGS Demo Site Through Natural Isotopic Reactive Tracers and Geochemical Investigation																																								
																10:00a-10:30a 30 min	Pete McGrail, PNNL Integrating Compressed Air Energy Storage and Geothermal for Grid-Scale Renewables Integration	10:00a-10:30a 30 min	Corina Forson, Washington Division of Geology and Earth Resources Geothermal Play-Fairway Analysis of Washington State Prospects	10:00a-10:30a 30 min	Dr. Bjorn Paulsson, Paulsson, Inc. Development of a 300°C, 200 level, 3C Fiber Optic Downhole Seismic Receiver Array for Surveying and Monitoring of Geothermal Reservoirs	10:00a-10:30a 30 min	Peter Drakos, Ormat Nevada, Inc. Feasibility of EGS Development at Bradys Hot Springs, Nevada																																
																								Audience Q&A		Audience Q&A		Audience Q&A		Audience Q&A																									
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																								11:00a-11:30a 30 min	Dan Wendt, INL & Craig Turchi, NREL Geothermal risk reduction via geothermal/solar hybrid power plants	11:00a-11:30a 30 min	Phil Wannamaker, University of Utah/EGI Structurally Controlled Geothermal Systems in the Central Cascadia Arc-BackArc Regime, Oregon	11:00a-11:30a 30 min	Grzegorz Cieslewski, SNL Enhanced High Temperature/High Speed Data Link for Logging Cables	11:00a-11:30a 30 min	Sharad Kelkar, LANL Bradys and Desert Peak Numerical Modeling																								
																																11:30a-12:00p 30 min	Dan Wendt, INL Forward Osmosis Purification of Co-Produced Water	11:30a-12:00p 30 min	Teresa Jordan, Cornell University Low Temperature Geothermal Play Fairway Analysis for the Appalachian Basin	11:30a-12:00p 30 min	Toshi Sugama, BNL & Erica Redline, SNL Elastomeric Material Evaluation and Development	11:30a-12:00p 30 min	Nicholas Davatzes, Temple University Monitoring EGS Stimulation and Reservoir Dynamics with InSAR and MEQ																
																																								12:00p-12:30p 30 min	Pete McGrail, PNNL Development of New Biphasic Metal Organic Working Fluids for Geothermal Systems	12:00p-12:30p 30 min	Phil Wannamaker, University of Utah/EGI Structurally Controlled Geothermal Systems in the Eastern Great Basin Extensional Regime, Utah	12:00p-12:30p 30 min	Avery Cashion, SNL Evaluation of High Temperature Components for Use in Geothermal Tools	12:00p-12:30p 30 min	Kurt Feigl, University of Wisconsin-Madison Poroelastic Tomography by Adjoint Inverse Modeling of Data from Seismology, Geodesy, and Hydrology								
																																																Audience Q&A		Audience Q&A		Audience Q&A		Audience Q&A	
																																																Lunch - Holly Thomas, DOE Play Fairway RFI Session room: Westminster III & IV		Lunch - Holly Thomas, DOE Play Fairway RFI Session room: Westminster III & IV		Lunch - Holly Thomas, DOE Play Fairway RFI Session room: Westminster III & IV		Lunch - Holly Thomas, DOE Play Fairway RFI Session room: Westminster III & IV	
2:00p-2:30p 30 min	Adrian Sabau, ORNL Freeform Heat Exchangers for Binary Geothermal Power Plants	2:00p-2:30p 30 min	Dr. Greg Nash (PI) & Carlton Bennett, Ruby Mountain Inc. The Convergence of Heat, Groundwater, & Fracture Permeability: Innovative Play Fairway Modelling Applied to the Tularosa Basin	2:00p-2:30p 30 min	Ernest L. Majer, LBNL Testing and Calibration of HT Wide-bandwidth Seismic Sensors for EGS Applications and Collaboration with IPGT Program	2:00p-2:30p 30 min	Mark Walters, Calpine - Geysers Power Company LLC Demonstration of an Enhanced Geothermal System at the Northwest Geysers Geothermal Field, California																																																
								Audience Q&A		Audience Q&A		Audience Q&A		Audience Q&A																																									
								2:30p-2:40p 10 min		2:30p-3:00p 30 min		2:30p-3:00p 30 min		2:30p-3:00p 30 min																																									
								2:40p-3:10p 30 min		Wrap up: Hybrid/Value Added Systems Session		2:40p-3:10p 10 min		2:40p-3:10p 10 min																																									
								3:10p-3:40p 30 min	Jay Renew & Ryan Melsert, Southern Research Institute Geothermal Thermoelectric Generation (G-TEG) with Integrated Temperature Driven Membrane Distillation and Novel Manganese Oxide for Lithium Extraction	3:00p-3:30p 30 min	Patrick Walsh, ORMAT Nevada, Inc. Recovery Act: Merging high resolution geophysical and geochemical surveys to reduce exploration risk at Glass Buttes, Oregon	3:00p-3:10p 10 min	Grzegorz Cieslewski, SNL Deployment of Integrated Wide Bandgap Sensor, HT Packaging, and Data Communication System	3:10p-3:40p 30 min	Jonny Rutqvist, LBNL Geysers Calpine Modeling																																								
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																3:30p-3:40p 10 min		3:30p-3:40p 10 min		3:30p-3:40p 10 min		3:30p-3:40p 10 min																																	
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4:30p-4:40p 10 min		4:30p-4:40p 10 min		4:30p-4:40p 10 min		4:30p-4:40p 10 min																																																	
4:40p-5:10p 30 min		Wrap up: Exploration Validation / Play Fairway Analysis Session		4:40p-5:10p 30 min		4:40p-5:10p 30 min																																																	
5:00p-5:10p 10 min		Audience Q&A		5:00p-5:10p 10 min		5:00p-5:10p 10 min																																																	
5:10p-5:40p 30 min		Eric Hass, DOE Play Fairway Focus Discussion with PFA Award Recipients		5:10p-5:40p 30 min		5:10p-5:40p 30 min																																																	
5:40p-7:00p 1hr 20min		Poster Session Networking Event in Westminster Foyer		5:40p-7:00p 1hr 20min		5:40p-7:00p 1hr 20min																																																	
5:10p-7:00p 1hr 50min		Poster Session Networking Event in Westminster Foyer		5:10p-7:00p 1hr 50min		5:10p-7:00p 1hr 50min																																																	
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cont'd -- Enhanced Geothermal Systems: High Temp Tools, Drilling Systems

Enhanced Geothermal Systems: Reservoir Modeling

cont'd -- Enhanced Geothermal Systems: Demonstrations

Low Temp: Hybrid/Value Added Systems

Low Temp: Mineral Recovery

Hosted By: Charlie Visser, NREL
Geothermal Development in African Nations

- 1 Recovery Act: Development of a Geomechanical Framework for the Analysis of MEQ in EGS Experiments (GEYSERS)
- 2 Analysis of Geothermal Reservoir Stimulation using Geomechanics-Based Stochastic Analysis of Injection-Induced Seismicity
- 3 Three-dimensional Modeling of Fracture Clusters in Geothermal Reservoirs

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Presenter(s), Awardee (or Organization), Project Title		Presenter(s), Awardee (or Organization), Project Title		Presenter(s), Awardee (or Organization), Project Title		Presenter(s), Awardee (or Organization), Project Title	
8:00a-9:00a 60 min	Lauren Boyd, DOE Frontier Observatory of Research and Geothermal Energy (FORGE) room: Westminster III & IV	8:00a-9:00a 60 min	Lauren Boyd, DOE Frontier Observatory of Research and Geothermal Energy (FORGE) room: Westminster III & IV	8:00a-9:00a 60 min	Lauren Boyd, DOE Frontier Observatory of Research and Geothermal Energy (FORGE) room: Westminster III & IV	No Meetings Scheduled	
9:00a-9:30a 30 min	Raymond Addleman, PNNL Recovery of Rare Earths, Precious Metals and Other Critical Materials from Geothermal Waters with Advanced Sorbent Structures	9:00a-9:30a 30 min	Patrick Dobson, LBNL & Kate Young, NREL Resource Reporting Methodology Analysis and Development of Geothermal Resource Reporting Metric for GTO's Hydrothermal Program	9:00a-9:30a 30 min	Mark White, PNNL Support of the DOE GTO Model Comparison Activity		
9:30a-10:00a 30 min	Dean Stull, Tusaar Corp. Environmentally friendly economical sequestration of rare earth metals from geothermal waters	9:30a-10:00a 30 min	Greg Mines, INL Hydrothermal Reservoir Productivity	9:30a-10:00a 30 min	Dr. Derek Elsworth, Pennsylvania State University Recovery Act: THMC Modeling of EGS Reservoirs - Continuum through Discontinuum Representations: Capturing Reservoir Stimulation, Evolution and Induced Seismicity		
10:00a-10:30a 30 min	Caroline Ajo-Franklin, LBNL Engineering Thermophilic Microorganisms to Selectively Extract Strategic Metals from Low Temperature Geothermal Brines	10:00a-10:10a 10 min	Audience Q&A	10:00a-10:10a 10 min	Audience Q&A		
10:30a-10:40a 10 min	Audience Q&A	10:10a-10:40a 30 min	Wrap up: Systems Analysis, Resources Assessment, Data System Development & Population, Education Session	10:10a-10:40a 30 min	Wrap Up: Reservoir Modeling Session		
10:40a-11:00a 20 min	Break	10:40a-11:00a 20 min	Break	10:40a-11:00a 20 min	Break		
11:00a-11:30a 30 min	Pete McGrail, PNNL Magnetic Partitioning Nanofluid for Rare Earth Extraction from Geothermal Fluids	11:00a-11:30a 30 min	Dale Wolfer, Atlas Copco Secoroc LLC Advanced Percussive Drilling Technology for Geothermal Exploration and Development	11:00a-11:30a 30 min	Tim Kneafsey, LBNL Sustainability of Shear-Induced Permeability for EGS Reservoirs		
11:30a-12:00p 30 min	Robert Zierenberg, University of California - Davis Maximizing REE Recovery in Geothermal Systems	11:30a-12:00p 30 min	Charlie Visser, NREL SURGE: Geothermal Drilling and Completions: Petroleum Practices Technology Transfer	11:30a-12:00p 30 min	Susan Carroll, LLNL Viability of Sustainable, Self-Proping Shear Zones in EGS: Measurement of Reaction Rates at Elevated Temperatures		
12:00p-12:10p 10 min	Audience Q&A	12:00p-12:30p 30 min	Toshi Sugama, BNL Multifunctional Corrosion -resistant Foamed Cement Composites	12:00p-12:10p 10 min	Audience Q&A		
12:10p-12:40p 30 min	Wrap up: Mineral Recovery Session	12:30p-12:40p 10 min	Audience Q&A	12:10p-12:40p 30 min			
12:40p-2:00p 80 min	Lunch - Erick Burns, USGS New Tools for Understanding Heat and Groundwater Flow in the Northwest Volcanic Aquifer Province, USA room: Westminster III & IV	12:40p-2:00p 80 min	Lunch - Erick Burns, USGS New Tools for Understanding Heat and Groundwater Flow in the Northwest Volcanic Aquifer Province, USA room: Westminster III & IV	12:40p-2:00p 80 min	Lunch - Erick Burns, USGS New Tools for Understanding Heat and Groundwater Flow in the Northwest Volcanic Aquifer Province, USA room: Westminster III & IV		
2:00p-2:30p 30 min	William D. Gosnold, University of North Dakota Recovery Act: Electric Power Generation from Low to Intermediate Temperature Resources	2:00p-2:30p 30 min	George Trubits, Trubits Group, LLC Recovery Act: Development Of An Improved Cement For Geothermal Wells	2:00p-2:30p 30 min	Dr. Ahmad Ghassemi, The Board of Regents of the University of Oklahoma Laboratory-Scale Characterization of EGS Reservoirs		
2:30p-3:00p 30 min	Greg Mines, INL & Tom Williams, NREL Low Temperature Project Analysis	2:30p-3:00p 30 min	Douglas Blankenship, SNL Drilling Technologies Evaluation	2:30p-3:00p 30 min	Rick Allis, University of Utah Novel Geothermal Development of Deep Sedimentary systems in the US		
3:00p-3:10p 10 min	Audience Q&A	3:00p-3:10p 10 min	Audience Q&A	3:00p-3:30p 30 min	Dr. Derek Elsworth, The Pennsylvania State University Surface and Subsurface Geodesy Combined with Active Borehole Experimentation for the Advanced Characterization of EGS Reservoirs		
3:10p-3:40p 30 min	Wrap up: Low Temperature Resources Session	3:10p-3:40p 30 min	Wrap up: Drilling Systems Session	3:30p-3:40p 10 min	Audience Q&A		
3:40p-4:00p 20 min	Break	3:40p-4:00p 20 min	Break	3:40p-4:00p 20 min	Break		
4:00p-4:30p 30 min		4:00p-5:40p 100 min	NREL/LBNL DOE Resource Reporting Methodology Effort-Update/Discussion	4:00p-4:30p 30 min	Dr. Chris Marone, The Pennsylvania State University Leveraging a Fundamental Understanding of Fracture Flow, Dynamic Permeability Enhancement, and Induced Seismicity to Improve Geothermal Energy Production		
4:30p-5:00p 30 min				4:30p-5:00p 30 min	Dr. Matthew Becker, California State University Long Beach Phase I Project: Fiber Optic Distributed Acoustic Sensing for Periodic Hydraulic Tests		
5:00p-5:30p 30 min				5:00p-5:30p 30 min	Richard Hughes, LA State University Geothermal Resource Development with Zero Mass Withdrawal, Engineered Convection, and Wellbore Energy Conversion		
5:30p-5:40p 10 min				5:30p-5:40p 10 min	Audience Q&A		

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Time	Panel	Time	Panel	Time	Panel	Time	Panel
No Meetings Scheduled		8:00a-9:00a 60 min	Marianne Walck, Sandia National Laboratory Subsurface Engineering R&D Crosscut (SubTER): adaptive control of fractures and fluid flow room: Westminster III & IV	8:00a-9:00a 60 min	Marianne Walck, Sandia National Laboratory Subsurface Engineering R&D Crosscut (SubTER): adaptive control of fractures and fluid flow room: Westminster III & IV	No Meetings Scheduled	
9:00a-9:30a 30 min		9:00a-9:30a 30 min	Mark Conrad, LBNL & Earl Mattson, INL Geothermometry Mapping of Deep Hydrothermal Reservoirs in Southeastern Idaho	9:00a-9:30a 30 min	Dr. Roland Gritto, Array Information Technology Seismic Analysis of Spatio-Temporal Fracture Generation During EGS Resource Development		
9:30a-10:00a 30 min		9:30a-10:00a 30 min	Patrick Dobson, LBNL Use of He isotopes for geothermal resource identification in the Cascades and Snake River Plain	9:30a-10:00a 30 min	Ileana Tibuleac, Board of Regents, NSHE, obo University of Nevada, Reno Quantifying EGS Reservoir Complexity with an Integrated Geophysical Approach - Improved Resolution Ambient Seismic Noise Interferometry		
10:00a-10:30a 30 min		10:00a-10:30a 30 min	Mack Kennedy, LBNL Surface estimates of deep permeability	10:00a-10:30a 30 min	Stephen Bauer, SNL Laboratory Evaluation of EGS Shear Stimulation		
10:30a-10:40a 10 min		10:30a-10:40a 10 min	Audience Q&A	10:30a-10:40a 10 min	Audience Q&A		
10:40a-11:00a 20 min		10:40a-11:00a 20 min	Break	10:40a-11:00a 20 min	Break		
11:00a-11:30a 30 min		11:00a-11:30a 30 min	Nicholas Spycher, LBNL Surprise Valley Geochemistry	11:00a-11:30a 30 min	Philip Bingham, ORNL & Yarom Polsky, ORNL Application of Neutron Imaging and Scattering to Fluid Flow and Fracture in EGS Environments		
11:30a-12:00a 30 min		11:30a-12:00a 30 min	Eric Sonnenthal, LBNL Integration of Nontraditional Isotopic Systems Into Reaction-Transport Models of EGS For Exploration, Evaluation of Water-Rock Interaction, and Impacts of Water Chemistry on Reservoir Sustainability	11:30a-12:00a 30 min	Kelly Rose, NETL Novel use of 4D Monitoring Techniques to Improve Reservoir Longevity and Productivity in Enhanced Geothermal Systems		
12:00p-12:10p 10 min		12:00p-12:10p 10 min	Audience Q&A	12:00p-12:10p 10 min	Audience Q&A		
12:10p-12:40p 30 min		12:10p-12:40p 30 min	Wrap up: Geochemistry Session	12:10p-12:40p 30 min	Wrap Up: Reservoir Fracture Characterization & Fluid Imaging Session		
12:40p-2:00p 80 min		12:40p-2:00p 80 min	Lunch - Jay Nathwani, DOE FY16 Lab AOP Session room: Westminster III & IV	12:40p-2:00p 80 min	Lunch - Jay Nathwani, DOE FY16 Lab AOP Session room: Westminster III & IV		
				2:00p-3:40p 100 min	Lauren Boyd, DOE Code Comparison Workshop		
				3:40p-4:00p 20 min	Break		
				4:00p-5:40p 100 min	Lauren Boyd, DOE Geochemistry/Tracers Workshop		

Hydrothermal: Geochemistry

cont'd -- Enhanced Geothermal Systems: Reservoir Fracture Characterization & Fluid Imaging